

## RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 09/676,053D  
Source: 1FW/b  
Date Processed by STIC: 12/2/05

***ENTERED***



IFW16

## RAW SEQUENCE LISTING

DATE: 12/02/2005

PATENT APPLICATION: US/09/676,053D

TIME: 15:59:10

Input Set : A:\PTO.AMC.txt

Output Set: N:\CRF4\12022005\I676053D.raw

```

4 <110> APPLICANT: Dolly, J. Oliver
5      Aoki, Kei Roger
6      Wheeler, Larry A.
7      Garst, Michael E.
9 <120> TITLE OF INVENTION: MODIFICATION OF CLOSTRIDIAL TOXINS FOR
10     USE AS TRANSPORT PROTEINS
13 <130> FILE REFERENCE: 17044 DIV (BOT)
15 <140> CURRENT APPLICATION NUMBER: 09/676,053D
16 <141> CURRENT FILING DATE: 2000-09-28
18 <150> PRIOR APPLICATION NUMBER: 08/750,101
19 <151> PRIOR FILING DATE: 1997-05-01
21 <150> PRIOR APPLICATION NUMBER: PCT/GB95/0125
22 <151> PRIOR FILING DATE: 1995-05-31
24 <150> PRIOR APPLICATION NUMBER: GB 9410870.1
25 <151> PRIOR FILING DATE: 1994-05-31
27 <150> PRIOR APPLICATION NUMBER: GB 9410871.9
28 <151> PRIOR FILING DATE: 1994-05-31
30 <160> NUMBER OF SEQ ID NOS: 19
32 <170> SOFTWARE: FastSEQ for Windows Version 4.0
34 <210> SEQ ID NO: 1
35 <211> LENGTH: 33
36 <212> TYPE: DNA
37 <213> ORGANISM: Artificial Sequence
39 <220> FEATURE:
40 <221> NAME/KEY: primer_bind
41 <222> LOCATION: (1)...(33)
42 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
43     neurotoxin L chain
45 <400> SEQUENCE: 1
46 gagatgggtcg acatgccaat aaccataaat aat
48 <210> SEQ ID NO: 2
49 <211> LENGTH: 32
50 <212> TYPE: DNA
51 <213> ORGANISM: Artificial Sequence
53 <220> FEATURE:
54 <221> NAME/KEY: primer_bind
55 <222> LOCATION: (1)...(32)
56 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
57     neurotoxin L chain
59 <400> SEQUENCE: 2
60 acgcgaagct tttatcatgc agttctatta ta
62 <210> SEQ ID NO: 3
63 <211> LENGTH: 30

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64 <212> TYPE: DNA
65 <213> ORGANISM: Artificial Sequence
67 <220> FEATURE:
68 <221> NAME/KEY: primer_bind
69 <222> LOCATION: (1)...(30)
70 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
71     amplification of C. tetani neurotoxin L chain
73 <400> SEQUENCE: 3
74 tagtacatgt ataagtgcgt gcattaatag 30
76 <210> SEQ ID NO: 4
77 <211> LENGTH: 20
78 <212> TYPE: DNA
79 <213> ORGANISM: Artificial Sequence
81 <220> FEATURE:
82 <221> NAME/KEY: primer_bind
83 <222> LOCATION: (1)...(20)
84 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
85     amplification of C. tetani neurotoxin L chain
87 <400> SEQUENCE: 4
88 ttatacatgt actacatggt 20
90 <210> SEQ ID NO: 5
91 <211> LENGTH: 23
92 <212> TYPE: DNA
93 <213> ORGANISM: Artificial Sequence
95 <220> FEATURE:
96 <221> NAME/KEY: primer_bind
97 <222> LOCATION: (1)...(23)
98 <223> OTHER INFORMATION: PCR primer for amplification of C. botulinum
99     neurotoxin L chain
101 <400> SEQUENCE: 5
102 aaaggccttt tgttaataaa caa 23
104 <210> SEQ ID NO: 6
105 <211> LENGTH: 26
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <221> NAME/KEY: primer_bind
111 <222> LOCATION: (1)...(26)
112 <223> OTHER INFORMATION: PCR primer for amplification of C. botulinum
113     neurotoxin L chain
115 <400> SEQUENCE: 6
116 ggaattctta cttattgtat ccttta 26
118 <210> SEQ ID NO: 7
119 <211> LENGTH: 18
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <221> NAME/KEY: primer_bind
125 <222> LOCATION: (1)...(18)

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126 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
127     amplification of C. botulinum neurotoxin L chain
129 <400> SEQUENCE: 7
130 gcacatcaac ttatacat                                     18
132 <210> SEQ ID NO: 8
133 <211> LENGTH: 18
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <221> NAME/KEY: primer_bind
139 <222> LOCATION: (1)...(18)
140 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
141     amplification of C. botulinum neurotoxin L chain
143 <400> SEQUENCE: 8
144 atgtataagt tgatgtgc                                     18
146 <210> SEQ ID NO: 9
147 <211> LENGTH: 18
148 <212> TYPE: DNA
149 <213> ORGANISM: Artificial Sequence
151 <220> FEATURE:
152 <221> NAME/KEY: primer_bind
153 <222> LOCATION: (1)...(18)
154 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
155     amplification of C. botulinum neurotoxin L chain
157 <400> SEQUENCE: 9
158 aacttatata tgctggac                                     18
160 <210> SEQ ID NO: 10
161 <211> LENGTH: 18
162 <212> TYPE: DNA
163 <213> ORGANISM: Artificial Sequence
165 <220> FEATURE:
166 <221> NAME/KEY: primer_bind
167 <222> LOCATION: (1)...(18)
168 <223> OTHER INFORMATION: PCR primer for site-directed mutagenesis and
169     amplification of C. botulinum neurotoxin L chain
171 <400> SEQUENCE: 10
172 gtccagcata tataagtt                                     18
174 <210> SEQ ID NO: 11
175 <211> LENGTH: 13
176 <212> TYPE: PRT
177 <213> ORGANISM: Artificial Sequence
179 <220> FEATURE:
180 <221> NAME/KEY: SITE
181 <222> LOCATION: (1)...(13)
182 <223> OTHER INFORMATION: Portion of predicted amino acid sequence of human
183     SNAP-25
185 <400> SEQUENCE: 11
186 Cys Ala Asn Gln Arg Ala Thr Lys Met Leu Gly Ser Gly
187 1           5           10

```

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188 <210> SEQ ID NO: 12
189 <211> LENGTH: 29
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <221> NAME/KEY: primer_bind
195 <222> LOCATION: (1)...(29)
196 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
197     neurotoxin L chain
199 <400> SEQUENCE: 12
200 atttcaccaa taaccataaa taatttttag                29
202 <210> SEQ ID NO: 13
203 <211> LENGTH: 26
204 <212> TYPE: DNA
205 <213> ORGANISM: Artificial Sequence
207 <220> FEATURE:
208 <221> NAME/KEY: primer_bind
209 <222> LOCATION: (1)...(26)
210 <223> OTHER INFORMATION: PCR primer for amplification of C. tetani
211     neurotoxin L chain
213 <400> SEQUENCE: 13
214 cgggatacctt ctgtatcatt gtaaatt                26
216 <210> SEQ ID NO: 14
217 <211> LENGTH: 63
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <221> NAME/KEY: misc_feature
223 <222> LOCATION: (1)...(63)
224 <223> OTHER INFORMATION: Polylinker region
226 <400> SEQUENCE: 14
227 atcgagggaa ggatttcaga attcggatcc tctagagtcg acatgccaat aaccataaag        60
228 ctt                                                63
230 <210> SEQ ID NO: 15
231 <211> LENGTH: 11
232 <212> TYPE: PRT
233 <213> ORGANISM: Artificial Sequence
235 <220> FEATURE:
236 <221> NAME/KEY: SITE
237 <222> LOCATION: (1)...(11)
238 <223> OTHER INFORMATION: Wild-type region of C. tetani light chain
240 <400> SEQUENCE: 15
241 Leu Leu Met His Glu Leu Ile His Val Leu His
242   1             5             10
243 <210> SEQ ID NO: 16
244 <211> LENGTH: 11
245 <212> TYPE: PRT
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:

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249 <221> NAME/KEY: VARIANT
250 <222> LOCATION: (5)...(5)
251 <223> OTHER INFORMATION: Ala 234 mutant region of C. tetani light chain
253 <400> SEQUENCE: 16
254 Leu Leu Met His Ala Leu Ile His Val Leu His
255 1 5 10
256 <210> SEQ ID NO: 17
257 <211> LENGTH: 13
258 <212> TYPE: PRT
259 <213> ORGANISM: Artificial Sequence
261 <220> FEATURE:
262 <221> NAME/KEY: SITE
263 <222> LOCATION: (1)...(13)
264 <223> OTHER INFORMATION: Polylinker region
266 <400> SEQUENCE: 17
267 Ile Glu Gly Arg Ile Ser Glu Phe Gly Ser Pro Pro Phe
268 1 5 10
269 <210> SEQ ID NO: 18
270 <211> LENGTH: 39
271 <212> TYPE: DNA
272 <213> ORGANISM: Artificial Sequence
274 <220> FEATURE:
275 <221> NAME/KEY: misc_feature
276 <222> LOCATION: (1)...(39)
277 <223> OTHER INFORMATION: Polylinker region
279 <400> SEQUENCE: 18
280 atcgagggaa ggatttcaga attcggatcc cccctttt 39
282 <210> SEQ ID NO: 19
283 <211> LENGTH: 19
284 <212> TYPE: PRT
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <221> NAME/KEY: SITE
289 <222> LOCATION: (1)...(19)
290 <223> OTHER INFORMATION: Polylinker region
292 <400> SEQUENCE: 19
293 Ile Glu Gly Arg Ile Ser Glu Phe Gly Ser Ser Arg Val Asp Met Pro
294 1 5 10 15
295 Ile Thr Ile

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**VERIFICATION SUMMARY**

DATE: 12/02/2005

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Input Set : A:\PTO.AMC.txt

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